

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

17601-045001

Application No.

10/788,694

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant

Joseph A. Zupanick

Filing Date

February 27, 2004

Group Art Unit

3672

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-045001	Application No. 10/788,694
	Applicant Joseph A. Zupanick		
	Filing Date February 27, 2004	Group Art Unit 3672	

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
PPS	A28	2004/0020655 A1	02/05/2004	Rusby et al.			

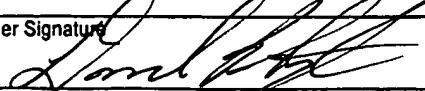
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
PPS	B1	WO 97/21900	06/19/1997	WIPO			N/A	
1	B2	WO 98/25005	06/11/1998	WIPO			N/A	
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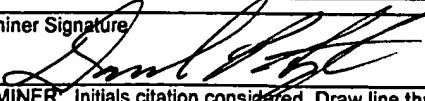
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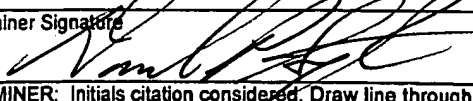
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<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant <b>Joseph A. Zupanick</b>	
		Filing Date <b>February 27, 2004</b>	Group Art Unit <b>3672</b>

Other Documents (include Author, Title, Date, and Place of Publication)		
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	C29	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/002162 mailed April 22, 2005
	C30	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (5 pages) re International Application No. PCT/US2005/005289 mailed April 29, 2005
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	C34	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed November 10, 2000 for International Application No. PCT/US99/27494
	C35	Notification of Transmittal of International Preliminary Examination Report (1 page) and International Preliminary Examination Report (6 pages) mailed April 2, 2001 and Written Opinion mailed September 27, 2000 for International Application No. PCT/US99/27494

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DPS	C36	Notification of Transmittal of the International Search Report or the Declaration (3 pages) and International Search Report (5 pages) mailed June 6, 2002 for International Application No. PCT/US02/02051
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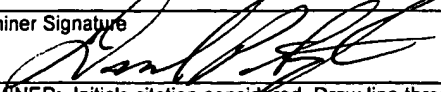
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	A1						
	A2						
	A3						
	A4						
	A5						

**Foreign Patent Documents or Published Foreign Patent Applications**

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	B1							
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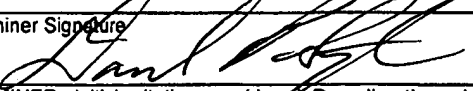
**Other Documents (include Author, Title, Date, and Place of Publication)**

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DPS	A1	4,417,829	11/29/1983	Berezoutzky			
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DPS	B1	442,008	01/23/1936	United Kingdom			N/A	
	B2	444,484	03/17/1936	United Kingdom			N/A	
	B3	651,468	04/04/1951	United Kingdom			N/A	
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	B5	SU-876968	10/30/1981	Russia			Y	
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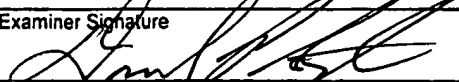
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	C5	Zupanick, J., "CDX Gas – Pinnacle Project," Presentation at the 2002 Fall Meeting of North American Coal Bed Methane Forum, Morgantown, West Virginia, October 30, 2002 (23 pages)
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	C8	Zupanick, Joseph A, "Coal Mine Methane Drainage Utilizing Multilateral Horizontal Wells," 2005 SME Annual Meeting & Exhibit, February 28 – March 2, 2005, Salt Lake City, Utah (6 pages)
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3672

## U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
DPS	A1	3,744,565	07/10/1973	Brown			
	A2	4,060,130	11/29/1977	Hart			
	A3	4,651,836	03/24/1987	Richards			
	A4	4,776,638	10/11/1988	Hahn			
	A5	5,148,877	09/22/1992	MacGregor			
	A6	5,287,926	02/22/1994	Gruppig			
	A7	5,355,967	10/18/1994	Mueller et al.			
	A8	5,775,443	07/07/1998	Lott			
	A9	2002/043404 A1	04/18/2002	Trueman et al.			

## Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
DPS	B1	EP 1 316 673 A2	06/04/2003	EPO			N/A	
DPS	B2	SU-876968	10/30/1981	Russia				X

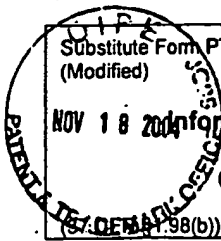
## Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
DPS	C1	PowerPoint Presentation entitled, "Horizontal Coalbed Methane Wells," by Bob Stayton, Computalog Drilling Services, date is believed to have been in 2002 (39 pages)
	C2	Denney, Dennis, "Drilling Maximum-Reservoir-Contact Wells in the Shaybah Field," SPE 85307, pages 60, 62-63, October 20, 2003
	C3	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (5 pages) and Written Opinion of the International Searching Authority (6 pages) re International Application No. PCT/US2004/012029 mailed September 22, 2004
	C4	Brunner, D.J. and Schwoebel, J.J., "Directional Drilling for Methane Drainage and Exploration in Advance of Mining," REI Drilling Directional Underground, World Coal, 1999, 10 pages
	C5	Thakur, P.C., "A History of Coalbed Methane Drainage From United States Coal Mines," 2003 SME Annual Meeting, February 24-26, Cincinnati, Ohio, 4 pages
	C6	U.S. Climate Change Technology Program, "Technology Options for the Near and Long Term," 4.1.5 Advances in Coal Mine Methane Recovery Systems, pp. 162-164

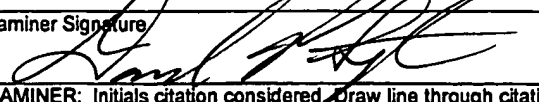
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 Substitute Form PTO-1449 (Modified) <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>17601-045001</b>	Application No. <b>10/788,694</b>
	Applicant <b>Joseph A. Zupanick</b>		
	Filing Date <b>February 27, 2004</b>	Group Art Unit <b>3672</b>	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>DPS</i>	C7	Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration (3 pages), International Search Report (3 pages) and Written Opinion of the International Searching Authority (7 pages) re International Application No. PCT/US2004/017048 mailed October 21, 2004
	C8	Gardes, Robert, "Multi-Seam Completion Technology," Natural Gas Quarterly, E&P, June 2004, pp. 78-81
	C9	Baiton, Nicholas, "Maximize Oil Production and Recovery," Vertizontal Brochure, received 10/2/2002, 4 pages
	C10	Dreiling, Tim, McClelland, M.L. and Bilyeu, Brad, "Horizontal & High Angle Air Drilling in the San Juan Basin, New Mexico," Dated on or about 3/6/2003, pp. 1-11
	C11	Fong, David K., Wong, Frank Y., and McIntyre, Frank J., "An Unexpected Benefit of Horizontal Wells on Offset Vertical Well Productivity in Vertical Miscible Floods," Canadian SPE/CIM/CANMET Paper No. HWC94-09, paper to be presented March 20-23, 1994, Calgary, Canada, 10 pages
	C12	Fischer, Perry A., "What's Happening in Production," World Oil, June 2001, p. 27
	C13	Website of PTTC Network News Volume 7, 1 <sup>st</sup> Quarter 2001, Table of Contents, <a href="http://www.pttc.org/./news/v7n1nn4.htm">http://www.pttc.org/./news/v7n1nn4.htm</a> printed 04/25/2003, 3 pages
	C14	Cox, Richard J.W., "Testing Horizontal Wells While Drilling Underbalanced," Delft University of Technology, August 1998, 68 pages
	C15	McLennan, John, et al., "Underbalanced Drilling Manual," Gas Research Institute, Chicago, Illinois, GRI Reference No. GRI-97/0236, copyright 1997, 502 pages
	C16	The Need for a Viable Multi-Seam Completion Technology for the Powder River Basin, Current Practice and Limitations, Gardes Energy Services, Inc., Believed to be 2003 (8 pages)
	C17	Langley, Diane, "Potential Impact of Microholes Is Far From Diminutive," JPT Online, <a href="http://www.spe.org/spe/jpt/jps">http://www.spe.org/spe/jpt/jps</a> , November 2004 (5 pages)
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Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
17601-045001Application No.  
10/788,694**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant  
Joseph A. ZupanickFiling Date  
February 27, 2004Group Art Unit  
3672

37 CFR § 1.902(b)

TRADEMARK

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	A2	274,740	03/27/1883	Douglass			
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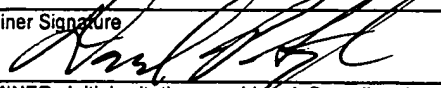
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	Applicant Joseph A. Zupanick			
	Filing Date February 27, 2004		Group Art Unit 3672	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
DPS	A28	3,208,537	09/28/1965	Scarborough			
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	A30	3,385,382	05/28/1968	Canalizo, et al.			
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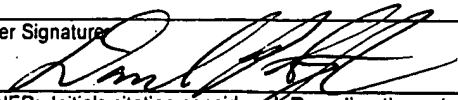
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
PPS	A55	4,022,279	05/10/1977	Driver			
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	A75	4,283,088	08/11/1981	Tabakov et al.			
	A76	4,296,785	10/27/1981	Vitello et al.			
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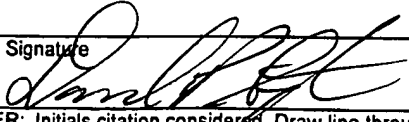
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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
DPS	A82	4,328,577	05/04/1982	Abbott et al.			
	A83	4,333,539	06/08/1982	Lyons et al.			
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	A105	4,544,037	10/01/1985	Terry			
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	A107	4,565,252	01/21/1986	Campbell et al.			
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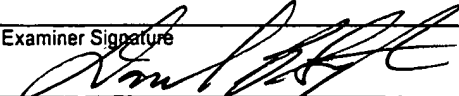
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<i>PS</i>	A109	4,600,061	07/15/1986	Richards			
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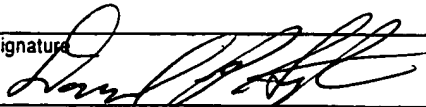
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<i>DP5</i>	A136	5,074,360	12/24/1991	Guinn			
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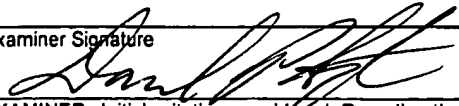
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-045001	Application No. 10/788,694
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date February 27, 2004	Group Art Unit 3672

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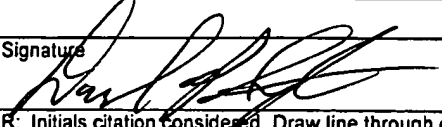
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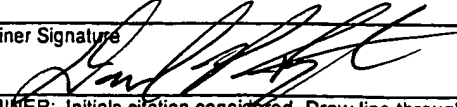
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**Information Disclosure Statement  
by Applicant**  
(Use several sheets if necessary)

(37 CFR §1.98(b))

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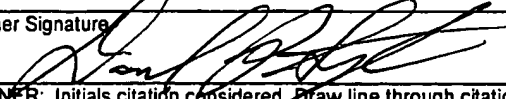
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
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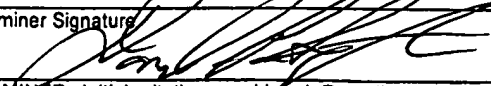
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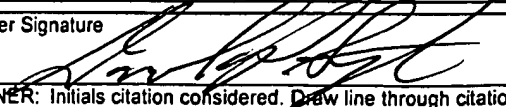
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	C52	Ghiselin, Dick, "Unconventional Vision Frees Gas Reserves," Natural Gas Quarterly, 2 pages, September 2003
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	C54	Skrebowski, Chris, "US Interest in North Korean Reserves," Petroleum, Energy Institute, 4 pages, July 2003

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-045001	Application No. 10/788,694
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date February 27, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication)		
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DA5	C55	Zupanick, U.S. Patent Application entitled "Slant Entry Well System and Method," S/N 10/004,316, October 30, 2001 (WO 03/038233) (36 pages)
	C56	Zupanick, et al., U.S. Patent Application entitled "Method and System for Underground Treatment of Materials," S/N 10/142,817, May 8, 2002 (WO 03/095795 A1) (55 pages)
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	C68	Platt, "Method and System for Lining Multilateral Wells," S/N 10/772,841, February 5, 2004 (30 pages)
	C69	Zupanick, "Three-Dimensional Well System For Accessing Subterranean Zones," February 11, 2004, S/N 10/777,503 (27 pages)
	C70	Zupanick, "System And Method For Directional Drilling Utilizing Clutch Assembly," S/N 10/811,118, March 25, 2004 (35 pages)
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	C73	Field, T.W., "Surface to In-seam Drilling - The Australian Experience," 10 pages, Undated

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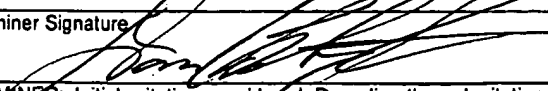
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DPS	C74	Drawings included in CBM well permit issued to CNX stamped April 15, 2004 by the West Virginia Department of Environmental Protection (5 pages)
	C75	Website of Mitchell Drilling Contractors, "Services: Dymaxion - Surface to In-seam," <a href="http://www.mitchelldrilling.com/dymaxion.htm">http://www.mitchelldrilling.com/dymaxion.htm</a> , printed as of 06/17/2004, 4 pages
	C76	Website of CH4, "About Natural Gas - Technology," <a href="http://www.ch4.com.au/ng_technology.html">http://www.ch4.com.au/ng_technology.html</a> , copyright 2003, printed as of 06/17/2004, 4 pages
	C77	Thomson, et al., "The Application of Medium Radius Directional Drilling for Coal Bed Methane Extraction," Lucas Technical Paper, copyrighted 2003, 11 pages
	C78	U.S. Department of Energy, DE-FC26-01NT41148, "Enhanced Coal Bed Methane Production and Sequestration of CO <sub>2</sub> in Unmineable Coal Seams" for Consol, Inc., accepted October 1, 2001, 48 pages
	C79	U.S. Department of Energy, "Slant Hole Drilling," March 1999, 1 page
	C80	Desai, Praful, et al., "Innovative Design Allows Construction of Level 3 or Level 4 Junction Using the Same Platform," SPE/Petroleum Society of CIM/CHOA 78965, Canadian Heavy Oil Association, 2002, pages 1-11
	C81	Bybee, Karen, "Advanced Openhole Multilaterals," Horizontal Wells, November 2002, pages 41-42
	C82	Bybee, Karen, "A New Generation Multilateral System for the Troll Olje Field," Multilateral/Extended Reach, July 2002, 2 pages
	C83	Emerson, A.B., et al., "Moving Toward Simpler, Highly Functional Multilateral Completions," Technical Note, Journal of Canadian Petroleum Technology, May 2002, Volume 41, No. 5, pages 9-12
	C84	Moritis, Guntis, "Complex Well Geometries Boost Orinoco Heavy Oil Producing Rates," XP-000969491, Oil & Gas Journal, February 28, 2000, pages 42-46
	C85	Themig, Dan, "Multilateral Thinking," New Technology Magazine, December 1999, pages 24-25
	C86	Smith, R.C., et al., "The Lateral Tie-Back System: The Ability to Drill and Case Multiple Laterals," IADC/SPE 27436, Society of Petroleum Engineers, 1994, pages 55-64, plus Multilateral Services Profile (1 page) and Multilateral Services Specifications (1 page)
	C87	Notification of Transmittal of the International Search Report or the Declaration (PCT Rule 44.1) (3 pages) and International Search Report (4 pages) re International Application No. PCT/US 03/13954 mailed September 1, 2003
	C88	Logan, Terry L., "Drilling Techniques for Coalbed Methane," Hydrocarbons From Coal, Chapter 12, Title Page, Copyright Page, pp. 269-285, Copyright 1993
	C89	Hanes, John, "Outbursts in Leichhardt Colliery: Lessons Learned," International Symposium-Cum-Workshop on Management and Control of High Gas Emissions and Outbursts in Underground Coal Mines, Wollongong, NSW, Australia, March 20-24, 1995, Cover page, pp. 445-449
	C90	Williams, Ray, et al., "Gas Reservoir Properties for Mine Gas Emission Assessment," Bowen Basin Symposium 2000, pp. 325-333

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DPS	C91	Brown, K., et al., "New South Wales Coal Seam Methane Potential," Petroleum Bulletin 2, Department of Mineral Resources, Discovery 2000, March 1996, pp. i-viii, 1-96
DPS	C92	Fipke, S., et al., "Economical Multilateral Well Technology for Canadian Heavy Oil," Petroleum Society, Canadian Institute of Mining, Metallurgy & Petroleum, Paper 2002-100, to be presented in Calgary Alberta, June 11-13, 2002, pages 1-11

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